

Title (en)  
METHOD AND APPARATUS FOR IDENTIFYING CHARACTERISTIC VALUE

Title (de)  
VERFAHREN UND GERÄT ZUR ERFASSUNG EINES KENNWERTES

Title (fr)  
PROCEDE ET DISPOSITIF POUR L'IDENTIFICATION D'UNE VALEUR CARACTERISTIQUE

Publication  
**EP 1288759 A4 20060222 (EN)**

Application  
**EP 01932206 A 20010522**

Priority  
• JP 0104286 W 20010522  
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Abstract (en)  
[origin: EP1288759A1] A characteristic value identification method and an apparatus therefor which can develop each model to be integrated into an entire model, similar to a product in which individual parts are combined, are provided. A functional model of a part is prepared based on a potential quantity and a flow quantity representing a strength and a quantity of energy applied to the part, a steady internal characteristic value of the functional model in a steady state is identified, and a transient internal characteristic value of the functional model in a transient state is identified by using the identified steady internal characteristic value. Furthermore, the functional model having the characteristic value identified by such an identification apparatus is incorporated into a virtual testing system as a virtual prototype, an internal characteristic value of the virtual prototype is evaluated by providing a driving operation condition and an environment condition, actual machine test data obtained by the driving operation condition and the environment condition are compared with the internal characteristic value, and a re-identification is performed depending on the comparison result if necessary. <IMAGE>

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**G05B 23/02**

IPC 8 full level  
**G05B 17/02** (2006.01); **G05B 23/02** (2006.01); **G06F 17/50** (2006.01)

CPC (source: EP US)  
**G05B 17/02** (2013.01 - EP US)

Citation (search report)  
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• [X] SHI K L ET AL: "Modelling of the three-phase induction motor using SIMULINK", ELECTRIC MACHINES AND DRIVES CONFERENCE RECORD, 1997. IEEE INTERNATIONAL MILWAUKEE, WI, USA 18-21 MAY 1997, NEW YORK, NY, USA, IEEE, US, 18 May 1997 (1997-05-18), pages WB3 - 61, XP010231880, ISBN: 0-7803-3946-0  
• [A] MEYER A S ET AL: "The industrial application of simulation to solve transient electric motor drive problems using readily available data", INDUSTRY APPLICATIONS SOCIETY ANNUAL MEETING, 1993., CONFERENCE RECORD OF THE 1993 IEEE TORONTO, ONT., CANADA 2-8 OCT. 1993, NEW YORK, NY, USA, IEEE, US, 2 October 1993 (1993-10-02), pages 303 - 309, XP010118742, ISBN: 0-7803-1462-X  
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**EP 1288759 A1 20030305; EP 1288759 A4 20060222**; JP 2001337716 A 20011207; JP 4397104 B2 20100113; US 2003065486 A1 20030403; US 6920413 B2 20050719; WO 0190833 A1 20011129

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